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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/033,910	01/03/2002	Michio Ihara	Q67977	2298

21171 7590 09/24/2004

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EXAMINER
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OMGBA, ESSAMA -

ART UNIT	PAPER NUMBER
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3726

DATE MAILED: 09/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/033,910

**Applicant(s)**

IIHARA ET AL.

**Examiner**

Essama Omgba

**Art Unit**

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 August 2004.  
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 8-14 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☒ Claim(s) 1 and 8 is/are allowed.  
6) ☒ Claim(s) 2-6 and 9-14 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 10, 2004 has been entered.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 9-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "deepening" in claim 9 is a relative term which renders the claim indefinite. The term "deepening" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is not clear at what point the recess ceases to be a recess and becomes a cup.

In claims 11 and 13, the difference between a cup body and a recess is not clear since a cup could basically be considered a recess. The claims do not put forth a

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structural difference between what is considered a "recess" and what is considered a "cup body".

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claims 9-14, *as best understood by the examiner*, are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's Admitted Prior Art (AAPA).

Applicant, at pages 1 and 2 of the specification to be known as AAPA, discloses a method of manufacturing an outer race used in a constant velocity universal joint of a tripod type, the method comprising forming an intermediate portion which eventually forms the outer race to form a cup portion including chamfered portions plastically formed by the use of a stepped punch. Applicant should note that phrase "an intermediate member which eventually forms the outer race" in AAPA is equivalent to Applicant's claimed upsetting step in that final design dimension and shape are not yet provided. Applicant should also note that there is no structural difference between the claimed recess and cup. Also although the punch of AAPA is straight even though it is a stepped punch.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 200001576 in view of Applicant's Admitted Prior Art (AAPA).

With regards to claim 2, JP"576 discloses a method of manufacturing an outer race used in a constant velocity universal joint of a tripod type, the constant velocity joint comprising a cup body 1 and a shaft 2 extending axially outwardly from a bottom of the cup body in a direction opposite to an open end thereof, the cup body having an inner peripheral surface formed with three axially extending track grooves 11a, the cup body further including a radially outwardly protruding wall portion 11b aligned with each of the track grooves, and a radially inwardly depressed wall portion 12 aligned with a reduced diameter portion of the peripheral wall of the cup body between neighboring track grooves, the protruding and depressed wall portions being so defined as to alternate with each other in a direction substantially circumferentially of the cup body, each of the reduced diameter portions of the peripheral wall of the cup body adjacent the open end of the latter having a chamfered portion 13 defined at a peripheral lip region of the open end of the cup body, see figures 1, 2 and 4, the method comprising an upsetting step for making a generally elongated intermediate member having a small diameter portion and a large diameter portion with an axially inwardly depressed recess defined in an end

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face of the large diameter portion remote from the small diameter portion, the recess having a tapered peripheral wall face T which defines a general shape of chamfered portions, see figure 3(d). Although the abstract does not disclose a cup forming step by means of a combined pushing method including a forward pushing and a rearward container pushing and a drawing step for shaping the cup body to a final design dimension and shape by means of a drawing technique, however Applicant at pages 1 and 2 of the specification to be known as AAPA, discloses those steps as being part of JP'576 manufacturing process. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have shaped the cup body as taught by JP'576 in order to manufacture the outer race more economically.

For claims 3-5, see figures 3(a) to 3(d) with the die of figures 3(a) to 3(c) and the punch P of figure 3(d).

For claim 6, see figures 3(a) and 3 (b).

#### ***Allowable Subject Matter***

8. Claims 1 and 8 are allowed.

#### ***Response to Arguments***

9. Applicant's arguments filed on August 10, 2004 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of Applicant's invention, it is noted that the features upon which Applicant relies

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(i.e., formation of the chamfered portions during an upsetting operation, prior to a cup forming operation) are not recited in the rejected claim(s). Nothing in claim 2 requires forming the chamfered portions prior to forming the cup portion. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). The examiner maintains that a *prima facie* case of obviousness has been established in the instant application as it relates to claims 2-6.

### ***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Essama Omgba whose telephone number is (703) 305-2915. The examiner can normally be reached on M-F (10-7:30) First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Essama Omgba', is positioned above the printed name and title.

Essama Omgba  
Primary Examiner  
Art Unit 3726

eo  
September 21, 2004